



# CPM-700

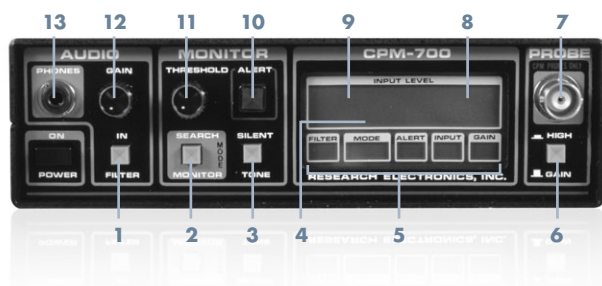
COUNTERSURVEILLANCE PROBE/MONITOR

Detect and locate major types of electronic surveillance devices such as room, phone, and body bugs. The CPM-700 responds to RF transmitters, magnetic recorders, carrier current transmitters, infrared transmitters, and acoustic leakage.

## CPM-700 Features

- Portable Sweep Kit - fits inside a standard briefcase.
- Multi-Functional Utility - Comes with probes to detect RF transmitters (audio and video), carrier current transmitters, and telephone bugs. Probes are also available to detect infrared transmitters, tape recorders, and acoustic leakage.
- Wideband Coverage - full spectrum from 200Hz to over 3GHz, including infrared.
- Auxiliary Audio Input - allows user to listen to telephones or lines for "hotmikes," hookswitch bypass and "infinity" bugs. Unknown wires and cables can be tested for wired microphones.

## Interface Diagram



### 1. FILTER

Audio filter used to accentuate voice frequencies and remove noise.

### 2. MODE

Sets the unit to Search or Monitor function. Search is for performing a sweep with the audio Automatic Gain Control engaged, the Monitor Mode sets the Alarm and Record output to detect an intrusion.

### 3. ALERT

Selects either audible Tone beeper or Silent flashing LED output from Monitor Mode.

### 4. LOW BATTERY

Voltage indicator, indicates approximately 10% remaining power.

### 5. STATUS DISPLAY

Shows unit operating conditions made by button selections.

### 6. GAIN

Adjusts the internal sensitivity of the Detector and Audio systems.

### 7. PROBE INPUT

Provides input and power for active probes and automatically selects the appropriate Probe or Aux detector circuits.

### 8. PULSING SEGMENT

Indicates alarm trip point in the Monitor Mode, activates Alarm & Remote output.

### 9. INPUT LEVEL

Bargraph indicates signal strength of Probe or Aux inputs.

### 10. ALERT LED

Flashes red when input level exceeds trip point of Monitor Mode.

### 11. THRESHOLD

Sets the trip point for the Monitor Mode

### 12. GAIN

Controls the audio gain (volume) to the speaker or headphone output.

### 13. PHONES

Allows for silent headphone detection, disconnects the internal speaker.



## CPM-700 Optional Accessories



### IRP-700 INFRARED PROBE

Enables the operator to detect and locate surveillance devices that utilize invisible infrared energy as the transmitting medium.



### MLP-700 MAGNETIC LEAKAGE PROBE

Enables the operator to detect and locate magnetic recording devices such as audio or video tape recorders.



### ALP-700 ACOUSTIC LEAKAGE PROBE

The operator can determine the vulnerability of acoustic leakage by placing the ALP-700 against structural objects (i.e. walls, windows).

## Technical Specifications

### RF PROBE

Gain: 20dB nominal

Frequency Response: 50kHz-2GHz  $\pm$  3dB,  
3GHz-10dB

Sensitivity: 62dBm (1 segment) - 85dBm M.D.L.

### VLF PROBE

Frequency Response: 15kHz-1MHz-3dB

MAX Input Voltage: 300VAC, 50-60Hz

Isolation: 1500VAC, 60Hz

Sensitivity: 38dBm (1 segment) - 60 M.D.L.

### AUDIO AMPLIFIER

Input Impedance: 50K $\Omega$  balanced

Input Range: 1.7 $\mu$ V-0V (135dB)

AGC Dynamic Range: 100dB (high & low gain)

Frequency Response: 100Hz-15kHz  $\pm$  3dB  
(filtered) 500Hz - 24dB/octave,  
2.5kHz-18dB/octave

Headphone Output: 5Vp (p 220 $\Omega$ )

Record Out: 25mV (p-p nominal with AGC)

### DISPLAY

18-segment LCD bargraph with pulsing single  
segment trip point 50dB dynamic range  
(1 segment High Gain to MAX Low Gain)

Alert Output: 2.8kHz tone or silent red LED at 2Hz

Remote Output: N.O. contact (300mA, 25V MAX)

### BATTERY

MN 1500 AA Alkaline (8 qty.): Life 10-16 hrs.

Optional 550mAh NiCad (8 qty.): Life 3-5 hrs.  
per charge

Low Battery Indicator: approx.10% remaining  
power

### AC ADAPTER/CHARGER

Input: 95-130VAC, 50-60Hz, or 200-275VAC  
50-60Hz

Output: 12VDC with 500mA

NiCad Recharge Time: 8-10 hrs.

### CPM-700 UNIT

Size: 9.125 in x 6.125 in x 1.75 in  
(23.2 cm x 15.6 cm x 4.4 cm)

Weight: 39 oz (1.1 kg)

### CARRYING CASE (with all standard items)

Size: 16.375 in x 11.25 in x 3 in  
(41.6 cm x 28.6 cm x 7.6 cm)

Weight: 7 lbs (3.18 kg)

## Other Accessories

### MPA-700 MODULAR PHONE ADAPTER

Gives operator easy access to phone  
wiring in testing for surveillance  
devices

### CLA-700 CIGARETTE LIGHTER ADAPTER

Provides 12VDC power from  
automobile socket

### NCB-700 NICAD BATTERIES

Can be recharged overnight numerous  
times



**CPM-700 sweep kit and custom Cordura case contain all items necessary to conduct a complete professional sweep.**